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NAVAL SUPPLY SYSTEMS COMMAND

FLSIC

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

SNT

www.snt.navsup.navy.mil

Ready. Resourceful. Responsive!

MATT MULLINS
CDR, USN
4-5 MAR 2004

Outline

- Background/Overview
- AIT Implementation/Requirements
- Warranty Data
  - Today's Guidance
  - What's Available
  - What's Planned
- Capitalizing on UID

How SNT Got Started

Aviation Maintenance-Supply Readiness (AMSR) Review – 1998

Challenge:

- **Lower Maintenance & Supply Cost**

- **Increase Readiness**

System Concept

Definition:

Closed-loop, cradle-to-grave tracking of maintenance critical, serialized components, providing asset visibility and material status, and enabled by automatic identification technology (AIT)

Plan:

Collect data through interfaces with various supply and maintenance systems and provide access to stakeholders via a Virtual Shared Data Warehouse

SNT System Goals

Major Benefits

Maintenance

- Identify Maintenance Deficiencies
- Measure Reliability
- Accurate Record Configuration
- Determine Training Requirements
- Assist Engineering Investigations

Supply

- Assess Repair Turn Around Time
- Decrease Misidentification and Losses
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility

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Aviation Asset/Information Flow

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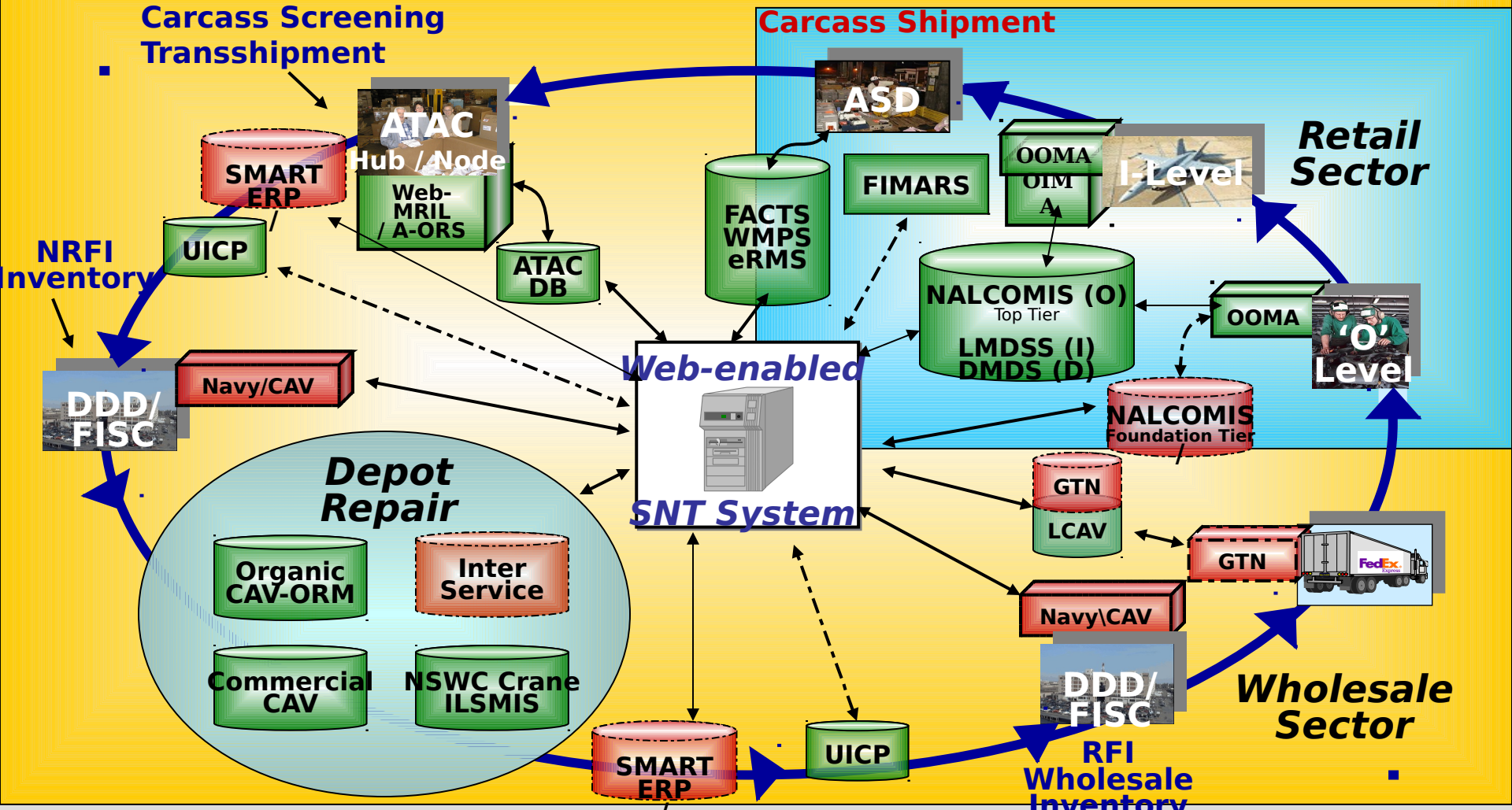
Overview

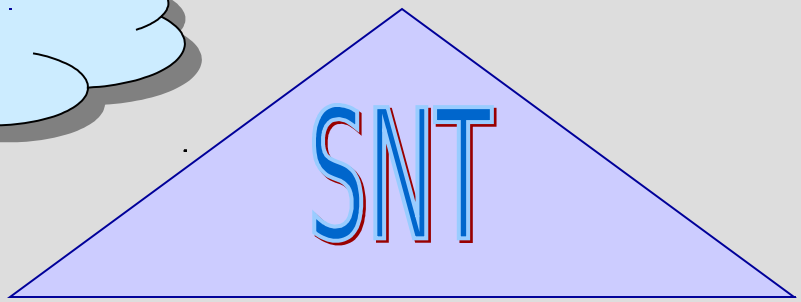
Information Systems



Connectivity | Not Connected | S/N | No S/N | Asset Flow

SNT Foundation

SNT requires two components



FIRST

Live access to databases via the SNT Web-enabled portal.

Data Base Access

- WMRIL/A-ORS
- eRMS/WMPS
- UICP
- WEB-CAV
- CAV-ORM
- CAV-Navy
- FACTS
- OOMA/OIMA
- R-Supply
- IBS

AIT

- CMB
- 2D Data matrix
- PDF417 2D
- ISO15418/15434
- MIL-STD-129
- MIL-STD-130
- MSL
- IRRD

SECOND

Automatic Identification Technology (AIT) is used by SNT to maintain data accuracy.

CMB

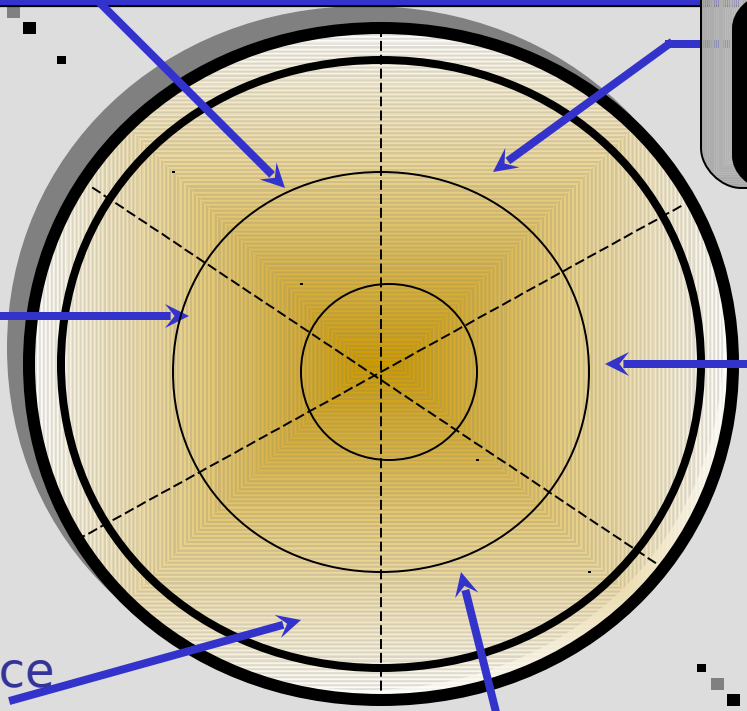
Contact Memory Button (CMB)

Scheduled Removal Component Card

Name Plate Data

Computer, Air Data CPU-175/A

P/N	50-100-01	SERNO	0152
MFR	K0656	CONTR	F33657-85C-0025



Maintenance History**

Warranty Data

CMB Stats:
- 2k,8k,32k
- ~$7-$13 each
- Read/Write
- Dual CMB/BC Reader $1200

**Use TBD within aviation maintenance

Available for Vendor Use

Available for Future Navy Use

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Supply - Aviation 5 Year CMB Plan

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AIT -Aviation Rollout

T/M/S	Total Number Aircraft	Components per Aircraft	Total Number of Components (W/ 25% spares)	Total CMB Cost	Contractor Installation Cost	Total Engineering Document Cost	Total AIT Cost
MH-53E	46	170	9,775	$152,783.25	$272,412.00	$136,000.00	$605,932.55
CH-53E	164	170	34,850	$544,705.50	$817,236.00	$136,000.00	$1,597,820.10
CH-53D	44	104	5,720	$89,403.60	$272,412.00	$83,200.00	$486,995.50
[illegible]H-60	342	300	128,250	$2,004,547.50	$3,268,944.00	$240,000.00	$5,665,423.90
[illegible]3B	111	400	55,500	$867,465.00	$708,271.20	$320,000.00	$1,712,510.98
E6A/B	26	469	9,380	$146,609.40	$163,447.20	$375,200.00	[illegible]
[illegible]	394	196	47,530	$742,893.90	$898,959.60	$156,800.00	$1,757,972.50
[illegible]UH-1N	126	132	20,790	$324,947.70	$599,306.40	$105,600.00	[illegible]
[illegible]46E	280	70	20,125	$314,553.75	$926,200.80	$56,000.00	$1,383,946.57
CH/HH-46	79	70	6,913	$108,042.38	$435,859.20	$56,000.00	$609,546.56
EA-6B	124	144	22,320	$348,861.60	$1,035,165.60	$115,200.00	$1,659,147.94
MV/CV/HV-22	458	203	116,218	$1,816,479.53	$3,922,732.80	$162,400.00	$6,254,890.39
AV-8	172	921	198,015	$3,094,974.45	$871,718.40	$736,800.00	$4,899,087.53
F-14A/B/D	193	200	48,250	$754,147.50	$871,718.40	$160,000.00	$1,940,564.86
P-3's	264	75	24,750	$386,842.50	$1,797,919.20	$60,000.00	$2,452,987.68
Cargo	295	175	64,531	$1,008,623.44	$2,724,120.00	$140,000.00	$4,297,527.69
Trainers	515	129	83,044	$1,297,973.81	$817,236.00	$103,200.00	$2,389,150.46
E-2C	75	145	13,594	$212,470.31	$1,525,507.20	$116,000.00	$1,963,874.10
C-2A	38	145	6,888	$107,651.63	$217,929.60	$116,000.00	$441,500.85
F-18ABCD	745	200	186,250	$2,911,087.50	$4,794,451.20	$160,000.00	$8,327,383.34
F-18EF	548	240	164,400	$2,569,572.00	$2,179,296.00	$192,000.00	$5,205,021.20
Misc Support							$2,805,000.00
Total			1,267,091	$19,804,636.24	$29,120,842.80	$3,726,400.00	$58,211,345.83

Total # of Items marked 1,267,091

SNT Implementation Cost = $58,211,346

Contracts

Package marking

Cage: 02059
PN:102770-351
Ser: 6694
NSN 7025011415888
CONT: N00104-98-T-0023
Name: Magnetic Tape
U/I: EA
QTY: 1

MIL-STD-129 PDF417
2D
ISO 15418 / 15434

Product Marking

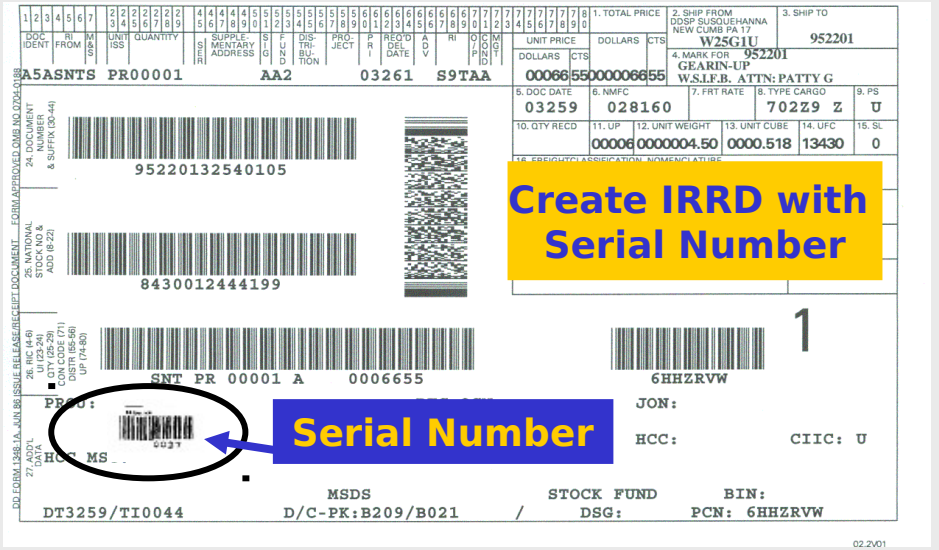
Nameplate Data

CMB

CAGE: 23456
PN: 33489-12
NSN: 5835-01-141-5888
S/N: 45367
Cont: N00383-02-G010N-0017
Name: Main Rotor Blade

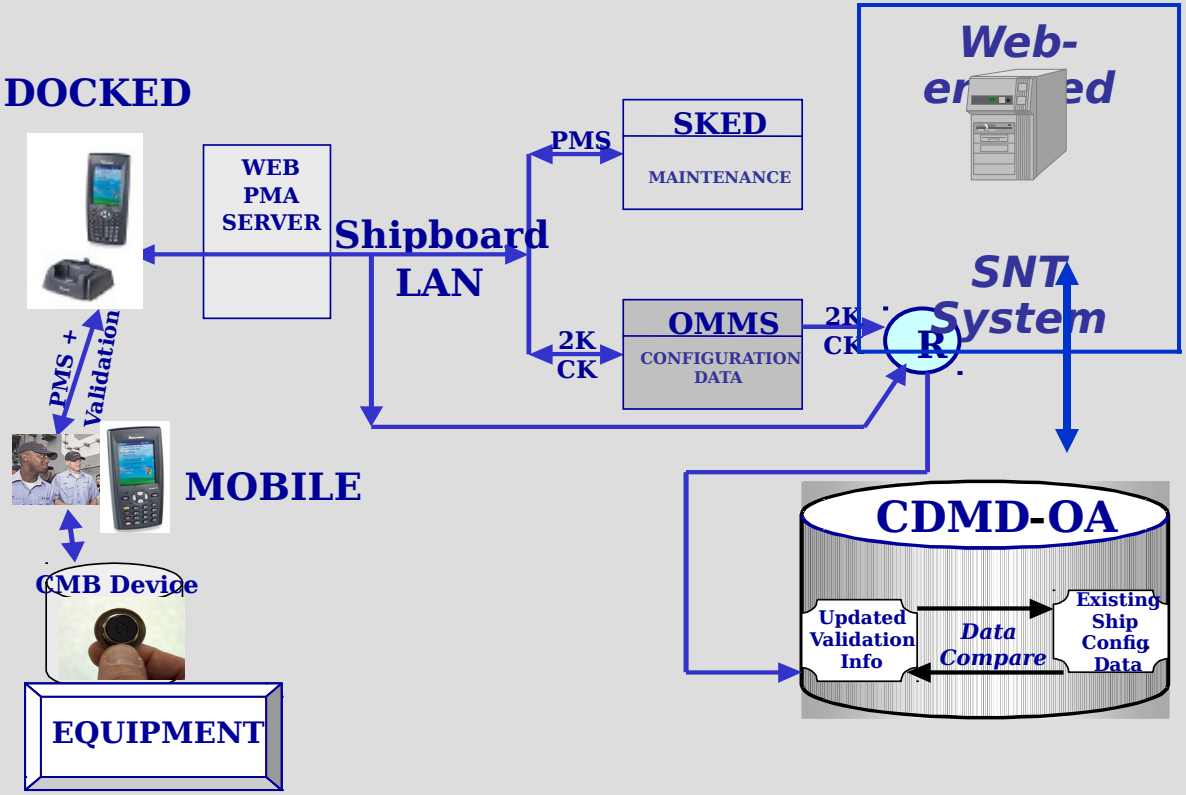
2D Data Matrix

Invoices

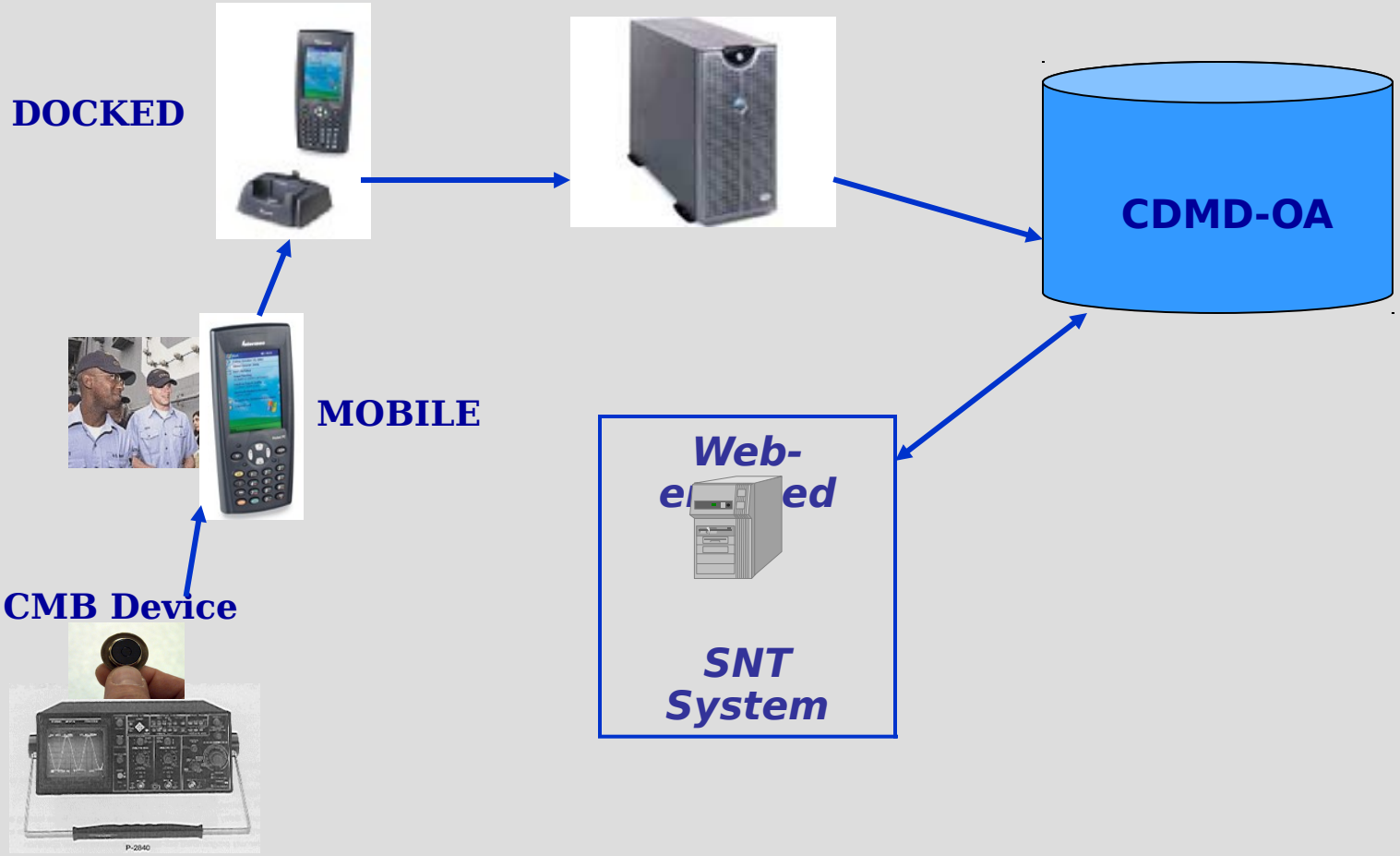


3/9 and 2D Barcode

Configuration Mgt Effort (Notional)

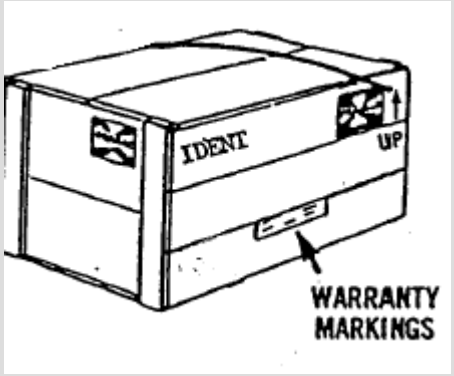


Calibration (Notional)



Warranty Markings

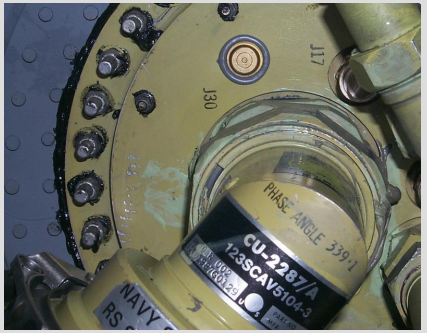
MIL-STD-129P CH2



WARRANTED ITEM
WARRANTY EXPIRES
AFTER 1000 HOURS
OF OPERATION

WARRANTED ITEM
WARRANTY EXPIRES
1 JANUARY 2003

MIL-STD 130L



WARRANTED ITEM
THIS ITEM IS UNDER WARRANTY
UNTIL____*(NOTE 1)*_____
NOTE 3

WARRANTED ITEM
THIS ITEM IS UNDER WARRANTY
UNTIL_____*(NOTE 2)*_____
HAS BEEN COMPLETED
NOTE 3

Note 1 – Indicates expiration Date
Note 2 – Indicates of use (Hours of Ops)
Note 3 - Examples provided as Guide (Not

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WEB-CAV Warranty Information

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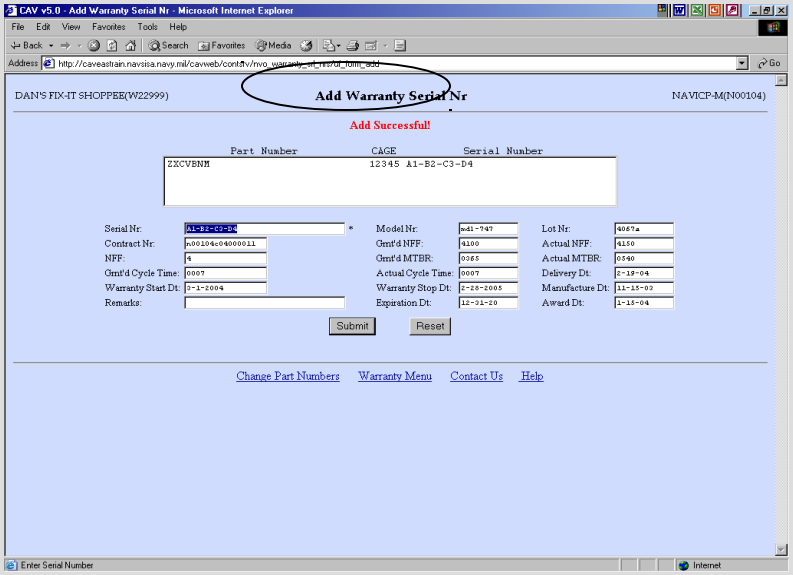
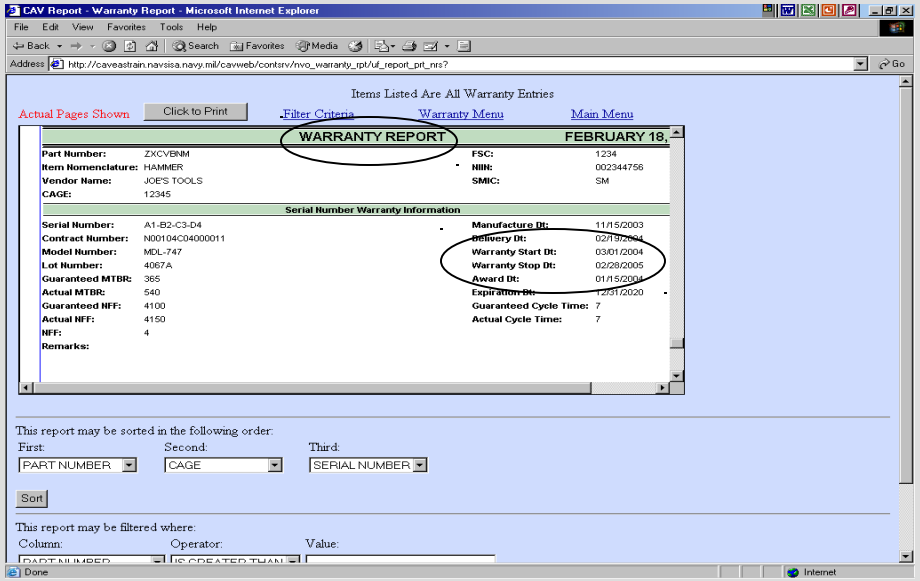
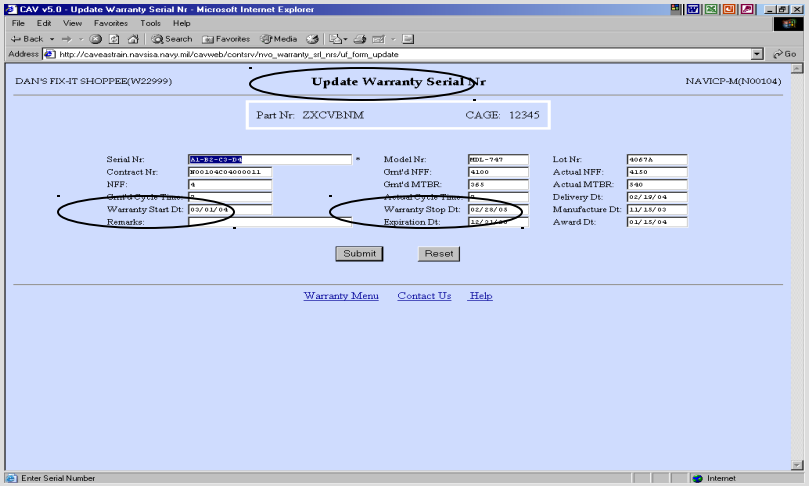
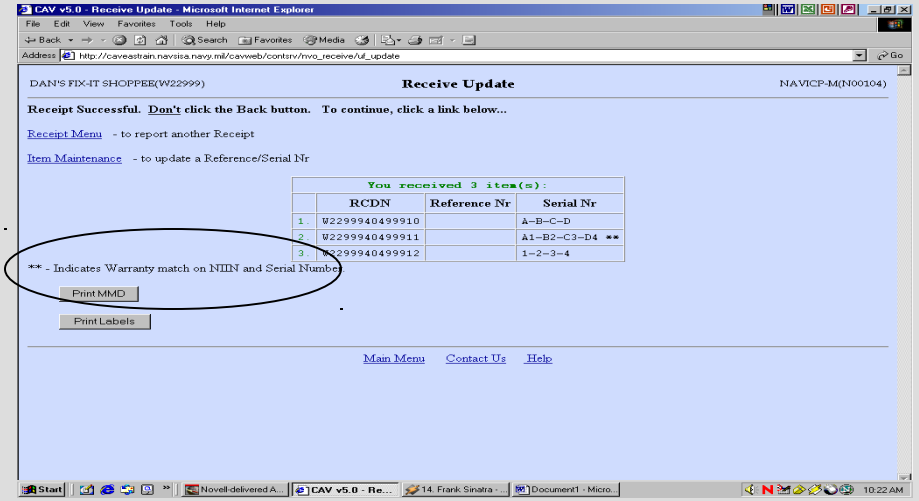
Warranty info









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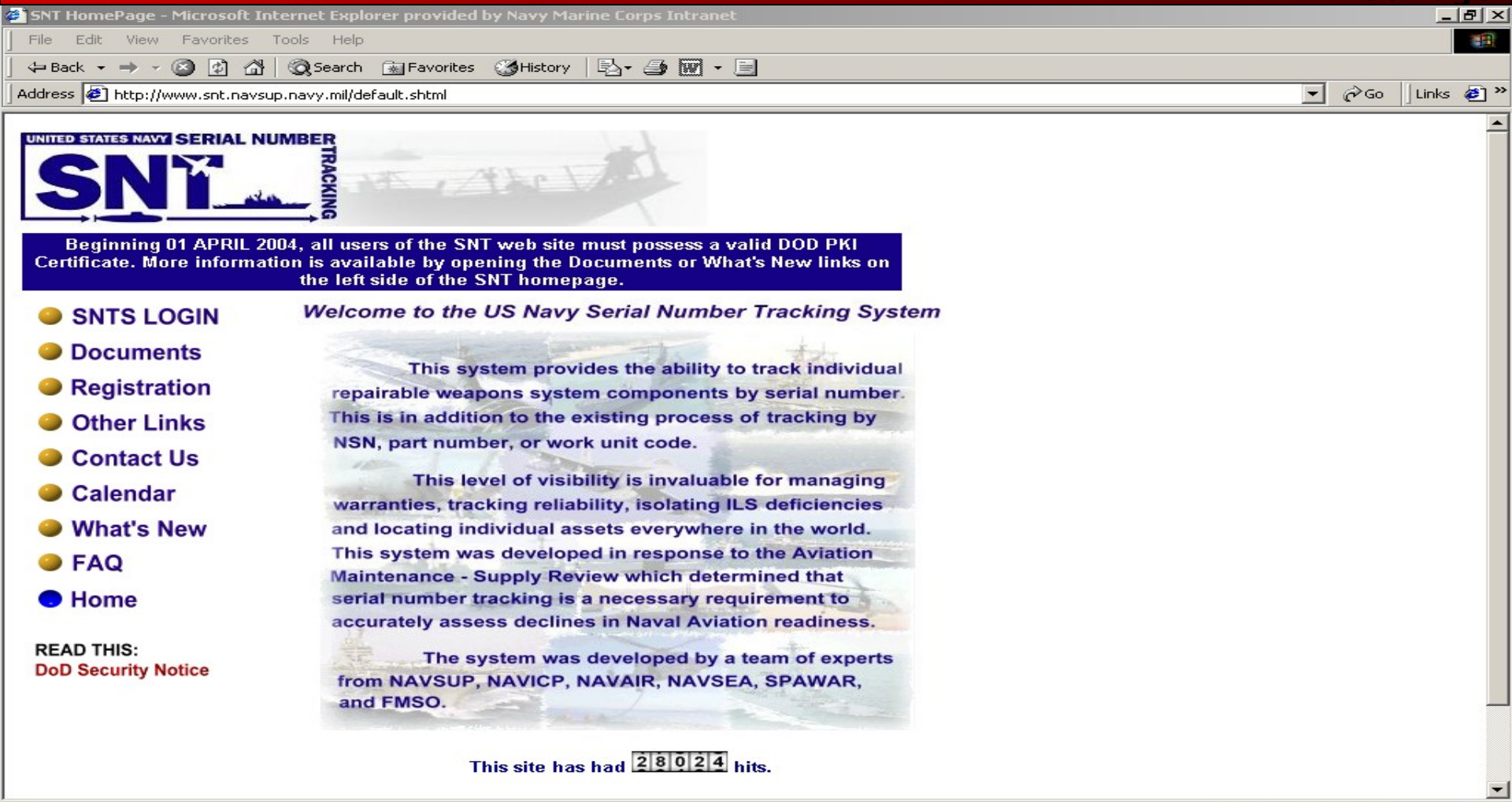
SNT Homepage

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Web Page



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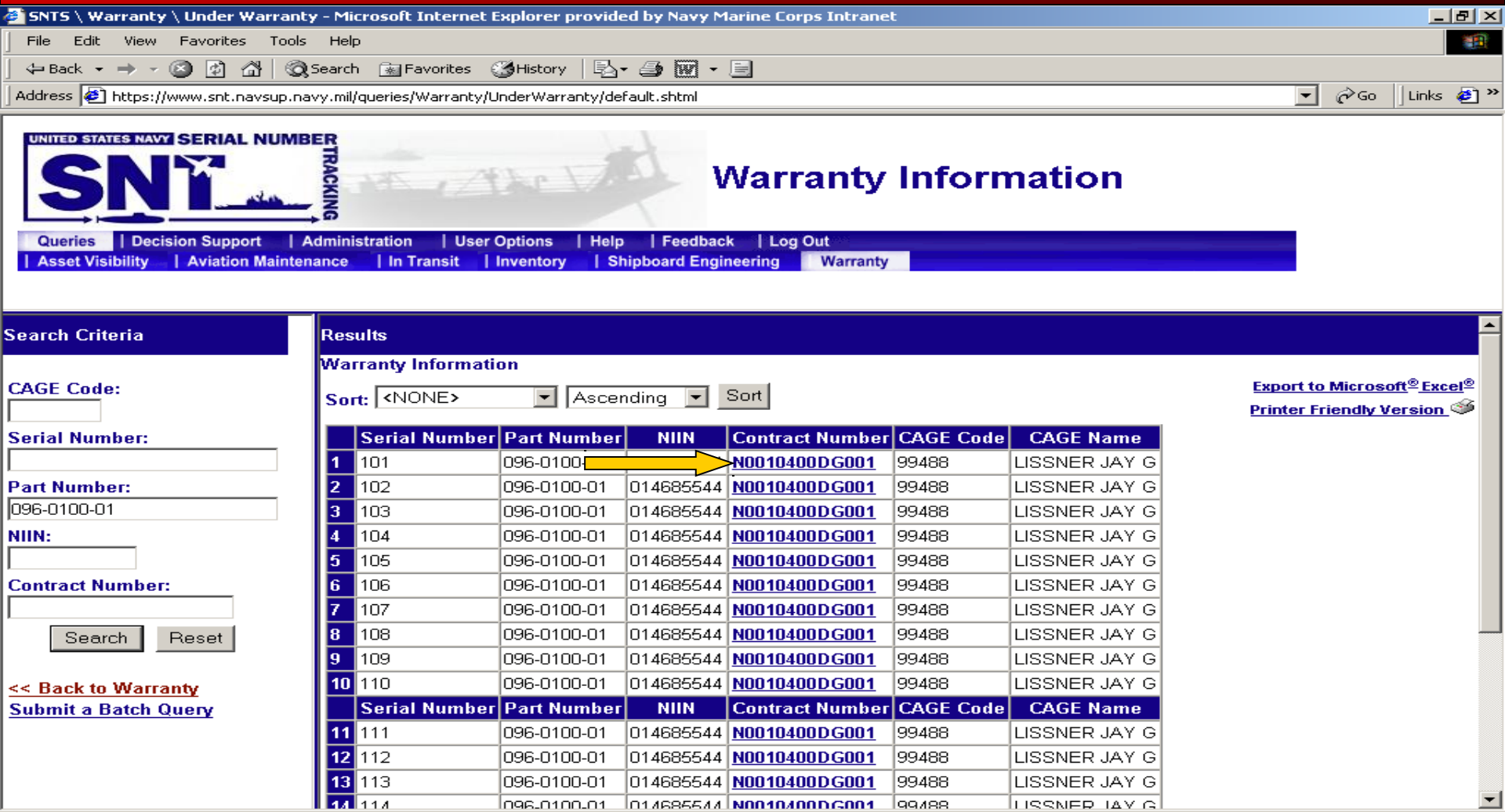
Warranty

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Warranty Info



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Warranty

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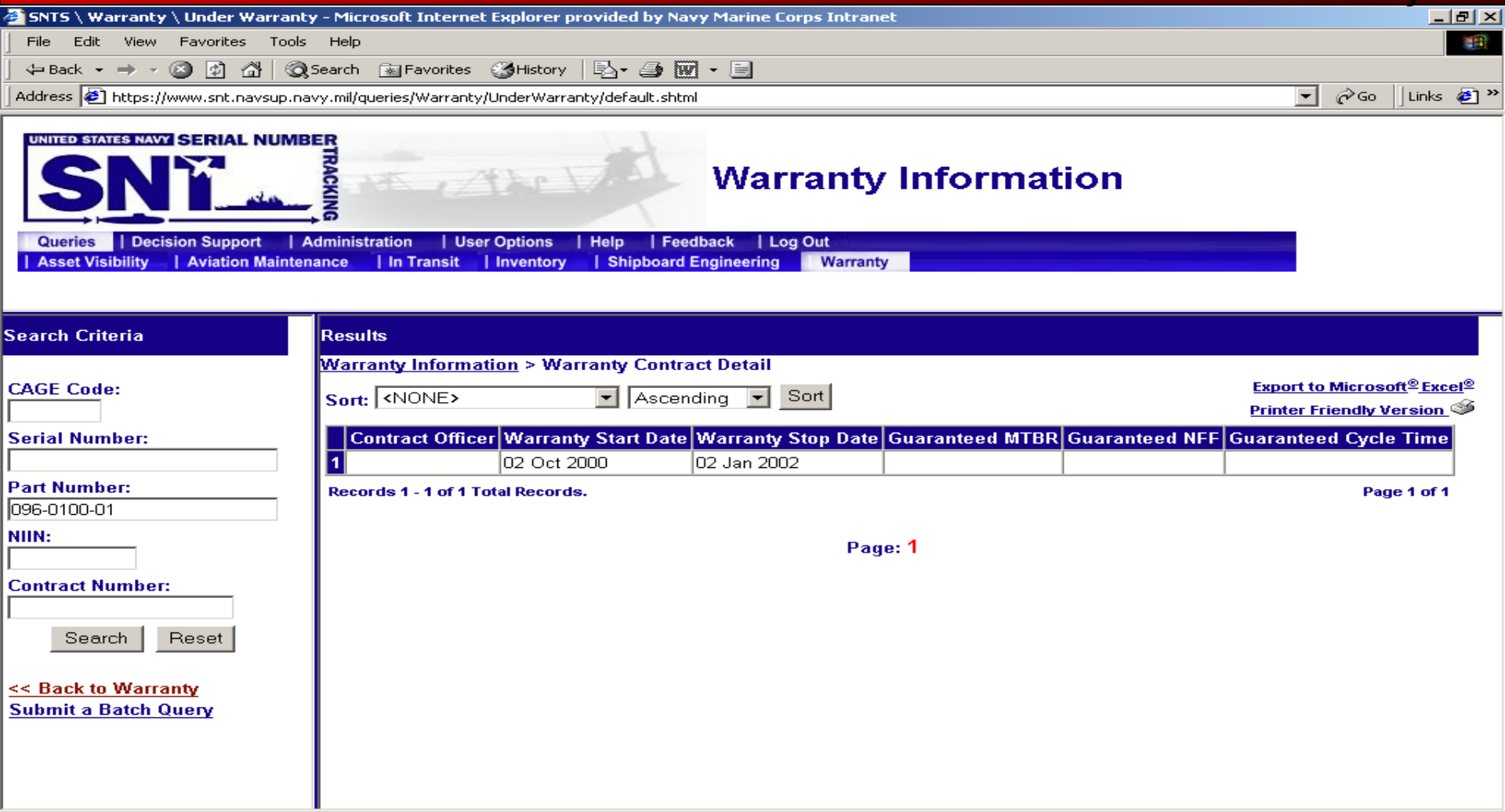
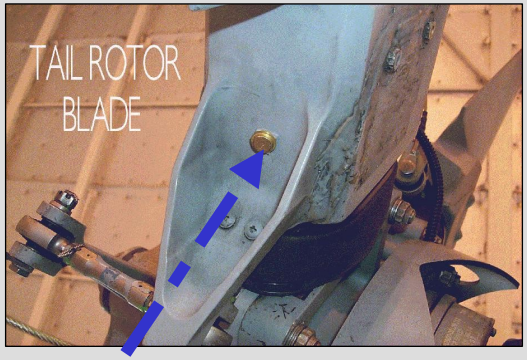
Warranty Info



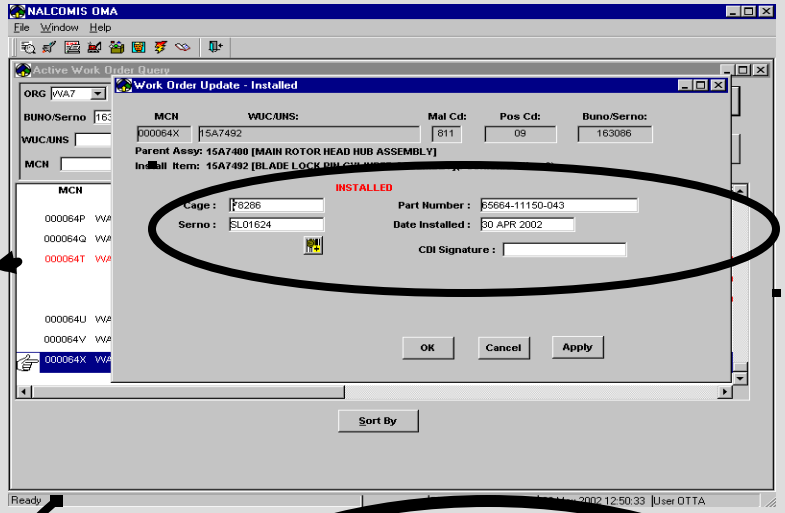
AIT Maintenance Data Collection(OOMA)

What's Planned

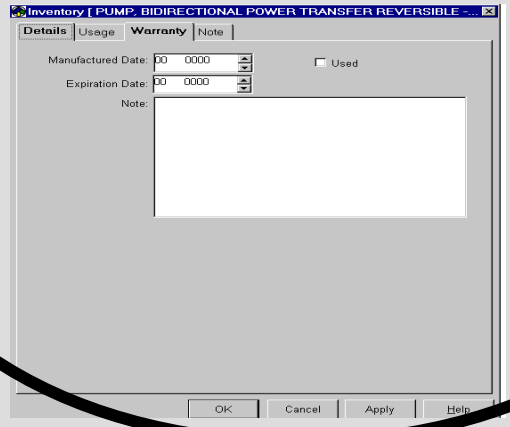


Button Readers

Information System OOMA



Future Capability within OOMA



SNT Follows DoD Policy

DoD Policy/Directives:

Mar 98 - Super Reg – Unique Item Identification (UII)
Sep 02 - SIM Initiative – CAGE, P/N, S/N
Jul 03 - USD – A,T & L Letter – Marking UID of Tangible Items Dated 7/29/03
Oct 03 - USD – A,T & L Letter – RFID Dated - 10/02/03
Nov 03 - DoD Guide to UID Items – EIN, P/N, S/N
Nov 03 - Update of Policy UID Transactions Dated - 11/26/03
Dec 03 - Migration to DLMS Dated - 12/22/03
Dec 03 - Revision to UID Policy Dated – 12/22/03

Common Link:

ANSI MH10 Data Syntax and Semantics 17V-EIN, S-S/N, 1P-P/N

[)>$^{R}_{S}$06$^{G}_{S}$17V35421$^{G}_{S}$S10936$^{G}_{S}$1P420Y2435$^{E}o_{T}$

Maintenance

MIL-STD 129M
PDF417 2D ANSI MH 10

Cage: 02059
PN:102770-351
Ser: 6694
NSN 7025011415888
CONT: N00104-98-T-0023
Name: Magnetic Tape
U/I: EA
QTY: 1

Supply / Transportation

Future Part Marking Requirement- Warranty

Navy Discretion

DoD Mandate

TODAY'S DoD UID REQUIREMENT

ANSI MH10 Data Syntax and Semantics 17V-EIN, S-S/N, 1P-P/N

[)>^{R}.06^{G}.17V35421^{G}.S10936^{G}.1P420Y2435^{E}o.

DoD UID REQUIREMENT WITH WARRANTY

ANSI MH10 Data Syntax and Semantics – 6D- Warranty

[)>$^{R}_{S}$06$^{G}_{S}$17V35421$^{G}_{S}$S10936$^{G}_{S}$1P420Y2435$^{G}_{S}$
6D20040415090$^{G}_{S}$6D20060414091^{E}o$_{T}$

Warranty Start Date
Date = 4/15/2004
Start = 090

Warranty Stop Date
Date = 4/14/2006
Start = 091